```
SSSSSSSSSSSS        000000000      RRRRRRRRRRRR     TTTTTTTTTTTTTTT      333333333          222222222
SSSSSSSSSSSS        000000000      RRRRRRRRRRRR     TTTTTTTTTTTTTTT      333333333          222222222
SSSSSSSSSSSS        000000000      RRRRRRRRRRRR     TTTTTTTTTTTTTTT      333333333          222222222
SSS            000        000      RRR        RRR        TTT            333      333      222        222
SSS            000        000      RRR        RRR        TTT            333      333      222        222
SSS            000        000      RRR        RRR        TTT            333               222        222
SSS            000        000      RRR        RRR        TTT                                         222
SSS            000        000      RRR        RRR        TTT                              222        222
SSS            000        000      RRR        RRR        TTT                                         222
SSSSSSSS       000        000      RRRRRRRRRRRR          TTT                     333                 222
SSSSSSSS       000        000      RRRRRRRRRRRR          TTT                     333                 222
SSSSSSSS       000        000      RRRRRRRRRRRR          TTT                     333                 222
        SSS    000        000      RRR    RRR            TTT                           333      222
        SSS    000        000      RRR    RRR            TTT                           333      222
        SSS    000        000      RRR    RRR            TTT                           333      222
        SSS    000        000      RRR        RRR        TTT            333            333
        SSS    000        000      RRR        RRR        TTT            333            333      222
        SSS    000        000      RRR        RRR        TTT            333            333      222
SSSSSSSSSSSS       000000000       RRR        RRR        TTT            333333333      222222222222222
SSSSSSSSSSSS       000000000       RRR        RRR        TTT            333333333      222222222222222
SSSSSSSSSSSS       000000000       RRR        RRR        TTT            333333333      222222222222222
```

```
 SSSSSSS     000000    RRRRRRR   TTTTTTTTTT  MM      MM  EEEEEEEEEE  RRRRRRR       GGGGGGG   EEEEEEEEEE
 SSSSSSS     000000    RRRRRRRR  TTTTTTTTTT  MM      MM  EEEEEEEEEE  RRRRRRRR      GGGGGGG   EEEEEEEEEE
SS          00    00   RR    RR      TT      MMMM  MMMM  EE          RR     RR   GG          EE
SS          00    00   RR    RR      TT      MMMM  MMMM  EE          RR     RR   GG          EE
SS          00    00   RR    RR      TT      MM  MM  MM  EE          RR     RR   GG          EE
SS          00    00   RR    RR      TT      MM  MM  MM  EE          RR     RR   GG          EE
 SSSSSS     00    00   RRRRRRR       TT      MM      MM  EEEEEEEE    RRRRRRRR     GG          EEEEEEEE
 SSSSSS     00    00   RRRRRRRR      TT      MM      MM  EEEEEEEE    RRRRRRRR     GG          EEEEEEEE
      SS    00    00   RR   RR       TT      MM      MM  EE          RR   RR    GG    GGGGG   EE
      SS    00    00   RR   RR       TT      MM      MM  EE          RR   RR    GG    GGGGG   EE
      SS    00    00   RR    RR      TT      MM      MM  EE          RR    RR   GG      GG    EE
      SS    00    00   RR    RR      TT      MM      MM  EE          RR    RR   GG      GG    EE
 SSSSSSS     000000    RR     RR     TT      MM      MM  EEEEEEEEEE  RR     RR    GGGGGG      EEEEEEEEEE
 SSSSSSS     000000    RR     RR     TT      MM      MM  EEEEEEEEEE  RR     RR    GGGGGG      EEEEEEEEEE
```

```
MM      MM   AAAAAA    PPPPPPP
MM      MM   AAAAAA    PPPPPPPP
MMMM  MMMM  AA    AA   PP     PP
MMMM  MMMM  AA    AA   PP     PP
MM  MM  MM  AA    AA   PP     PP
MM  MM  MM  AA    AA   PP     PP
MM      MM  AA    AA   PPPPPPPP
MM      MM  AA    AA   PPPPPPP
MM      MM  AAAAAAAAAA PP
MM      MM  AAAAAAAAAA PP
MM      MM  AA    AA   PP
MM      MM  AA    AA   PP
MM      MM  AA    AA   PP
MM      MM  AA    AA   PP
```

_$2

Pse

_LI

SOR

MSG

MSG

MSG   ....
                                       ....
MSG   ....
                                       ....

```
+-----------------------------------+
! Object Module Synopsis !
+-----------------------------------+
```

Module Name	Ident	Bytes	File	Creation Date	Creator
SORTSHR	V04-000	0	[SORT32.OBJ]SORTSHR.EXE;1	16-SEP-1984 04:16	VAX-11 Linker V04-00
LIBRTL	V04-000	0	_255DUA28:[SYSLIB]LIBRTL.EXE;1	16-SEP-1984 04:00	VAX-11 Linker V04-00
SOR$ENTRY	V04-000	1312	[SORT32.OBJ]SORTMERGE.OLB;1	16-Sep-1984 00:23	VAX-11 Bliss-32 V4.0-742
SOR$COMMAND	V04-000	3753	[SORT32.OBJ]SORTMERGE.OLB;1	16-Sep-1984 00:45	VAX-11 Bliss-32 V4.0-742
UTIL$CHK_CLI	V04-000	2145	[SORT32.OBJ]SORTMERGE.OLB;1	16-Sep-1984 00:48	VAX-11 Bliss-32 V4.0-742
SOR$OUTPUT	V04-000	163	[SORT32.OBJ]SORTMERGE.OLB;1	16-SEP-1984 01:18	VAX/VMS Macro V04-00
LIB$FIXUP_DEC	V04-000	788	[SORT32.OBJ]SORTMERGE.OLB;1	16-SEP-1984 01:19	VAX/VMS Macro V04-00
CLI$INTERFACE	V04-000	516	_255DUA28:[SYSLIB]STARLET.OLB;2	16-Sep-1984 00:32	VAX-11 Bliss-32 V4.0-742
CLI$GLOBALS	V04-000	0	_255DUA28:[SYSLIB]STARLET.OLB;2	15-SEP-1984 23:38	VAX/VMS Macro V04-00
LIB$MSGDEF	2-018	0	_255DUA28:[SYSLIB]STARLET.OLB;2	15-SEP-1984 23:43	VAX-11 Message V04-00
SYS$P1_VECTOR	V04-000	0	_255DUA28:[SYSLIB]STARLET.OLB;2	16-SEP-1984 00:40	VAX/VMS Macro V04-00

```
+----------------------------+
! Image Section Synopsis !
+----------------------------+
```

Cluster	Type	Pages	Base Addr	Disk VBN	PFC	Protection and Paging	Global Sec. Name	Match	Majorid	Minorid
SORTSHR	3	78	00000000-R	0	0	READ ONLY	SORTSHR_001	LESS/EQUAL	2	26
	4	1	00009C00-R	0	0	READ WRITE COPY ON REF	SORTSHR_002	LESS/EQUAL	2	26
	4	1	P-00009E00-R	0	0	READ WRITE COPY ON REF	SORTSHR_003	LESS/EQUAL	2	26
	2	1	0000A000-R	0	0	READ WRITE FIXUP VECTORS	SORTSHR_004	LESS/EQUAL	2	26
LIBRTL	3	111	00000000-R	0	0	READ ONLY	LIBRTL_001	LESS/EQUAL	1	11
	4	1	0000DE00-R	0	0	READ WRITE DEMAND ZERO	LIBRTL_002	LESS/EQUAL	1	11
CODE	0	17	00000200	2	0	READ ONLY				
DEFAULT_CLUSTER	0	1	00002400	19	0	READ WRITE COPY ON REF				
	0	1	00002600	20	0	READ WRITE FIXUP VECTORS				
	253	20	7FFFD800	0	0	READ WRITE DEMAND ZERO				

```
        Key for special characters above:
        +--------------------+
        ! R  - Relocatable !
        ! P  - Protected   !
        +--------------------+
```

+--------------------------------+
! Program Section Synopsis !
+--------------------------------+

Psect Name	Module Name	Base	End	Length	Align	Attributes
$CODE$		00000200	00001743	00001544 (5444.)	LONG 2	PIC,USR,CON,REL,GBL, SHR, EXE, RD,NOWRT,NOVEC
	SOR$ENTRY	00000200	000004A0	000002A1 (673.)	LONG 2	
	SOR$COMMAND	000004A4	00000E67	000009C4 (2500.)	LONG 2	
	UTIL$CHK_CLI	00000E68	0000153F	000006D8 (1752.)	LONG 2	
	CLI$INTERFACE	00001540	00001743	00000204 (516.)	LONG 2	
$PLIT$		00001744	00001E8B	00000748 (1864.)	LONG 2	PIC,USR,CON,REL,GBL, SHR, EXE, RD,NOWRT,NOVEC
	SOR$ENTRY	00001744	0000197A	00000237 (567.)	LONG 2	
	SOR$COMMAND	0000197C	00001E1F	000004A4 (1188.)	LONG 2	
	UTIL$CHK_CLI	00001E20	00001E8B	0000006C (108.)	LONG 2	
SOR$RO_CODE		00001E8C	00001F2E	000000A3 (163.)	LONG 2	PIC,USR,CON,REL,GBL, SHR, EXE, RD,NOWRT,NOVEC
	SOR$OUTPUT	00001E8C	00001F2E	000000A3 (163.)	LONG 2	
_LIB$CODE		00001F30	00002243	00000314 (788.)	LONG 2	PIC,USR,CON,REL,GBL, SHR, EXE, RD,NOWRT,NOVEC
	LIB$FIXUP_DEC	00001F30	00002243	00000314 (788.)	LONG 2	
OWN		00002400	000025A8	000001A9 (425.)	LONG 2	NOPIC,USR,CON,REL,LCL,NOSHR,NOEXE, RD, WRT,NOVEC
	SOR$ENTRY	00002400	00002447	00000048 (72.)	LONG 2	
	SOR$COMMAND	00002448	00002488	00000041 (65.)	LONG 2	
	UTIL$CHK_CLI	0000248C	000025A8	0000011D (285.)	LONG 2	

```
+------------------------------+
! Symbol Cross Reference !
+------------------------------+
```

Symbol	Value	Defined By	Referenced By ...
CHK$CHKPNT	00000000		WK-UTIL$CHK_CLI
CHK$CRECHK	00000000		WK-UTIL$CHK_CLI
CHK$_NOTINIT	00000000		WK-UTIL$CHK_CLI
CLI$DCL_PARSE	0000160F-R	CLI$INTERFACE	
CLI$DISPATCH	000016C0-R	CLI$INTERFACE	
CLI$GET_VALUE	00001583-R	CLI$INTERFACE	SOR$COMMAND UTIL$CHK_CLI
CLI$NEXT_QUAL	00001701-R	CLI$INTERFACE	SOR$COMMAND UTIL$CHK_CLI
CLI$PRESENT	00001540-R	CLI$INTERFACE	SOR$COMMAND UTIL$CHK_CLI
CLI$_ABSENT	000381F0	CLI$GLOBALS	CLI$INTERFACE
CLI$_COMMA	0003FD39	CLI$GLOBALS	CLI$INTERFACE
CLI$_CONCAT	0003FD29	CLI$GLOBALS	CLI$INTERFACE
CLI$_DEFAULTED	0003FD21	CLI$GLOBALS	CLI$INTERFACE
CLI$_FACILITY	00000003	CLI$GLOBALS	UTIL$CHK_CLI
CLI$_INVQUAL	0003880A	CLI$GLOBALS	SOR$COMMAND
CLI$_INVREQTYP	00038822	CLI$GLOBALS	UTIL$CHK_CLI
CLI$_IVCHAR	00038050	CLI$GLOBALS	SOR$COMMAND
CLI$_IVVALU	00038088	CLI$GLOBALS	SOR$COMMAND
CLI$_LOCNEG	00038230	CLI$GLOBALS	CLI$INTERFACE
CLI$_LOCPRES	0003FD31	CLI$GLOBALS	CLI$INTERFACE
CLI$_NEGATED	000381F8	CLI$GLOBALS	CLI$INTERFACE SOR$COMMAND
CLI$_NOCOMD	000380B0	CLI$GLOBALS	CLI$INTERFACE
CLI$_PRESENT	0003FD19	CLI$GLOBALS	CLI$INTERFACE
CLI$_SPAWNED	0003FD01	CLI$GLOBALS	UTIL$CHK_CLI
CLI$_VALCNVERR	00038832	CLI$GLOBALS	SOR$COMMAND
CLI_BEGIN	00000E68-R	UTIL$CHK_CLI	
CLI_END	00000EA1-R	UTIL$CHK_CLI	
CLI_GET_VALUE	00000ECD-R	UTIL$CHK_CLI	
CLI_NEXT_QUAL	00001093-R	UTIL$CHK_CLI	
CLI_PRESENT	00000FB8-R	UTIL$CHK_CLI	
LIB$FIXUP_DEC	00001F51-R	LIB$FIXUP_DEC	SOR$ENTRY
LIB$FIXUP_FLT	00002688-RX	LIBRTL	SOR$ENTRY
LIB$FREE_VM	00002674-RX	LIBRTL	CLI$INTERFACE
LIB$GET_VM	00002678-RX	LIBRTL	CLI$INTERFACE
LIB$SIGNAL	00002684-RX	LIBRTL	SOR$COMMAND SOR$ENTRY UTIL$CHK_CLI
LIB$SYS_TRNLOG	0000267C-RX	LIBRTL	UTIL$CHK_CLI
LIB$_BADSTA	00158204	LIB$MSGDEF	LIB$FIXUP_DEC
PRINT_STATS	00000390-R	SOR$ENTRY	
SOR$COMMAND	000004B7-R	SOR$COMMAND	SOR$ENTRY
SOR$OUTPUT	00001E8E-R	SOR$OUTPUT	SOR$ENTRY
SOR$BEGIN_MERGE	00002648-RX	SORTSHR	SOR$COMMAND
SOR$BEGIN_SORT	0000264C-RX	SORTSHR	SOR$COMMAND
SOR$END_SORT	0000265C-RX	SORTSHR	SOR$ENTRY
SOR$ENTRY	000002B1-R	SOR$ENTRY	
SOR$GK_ADDRESS	00000004	SORTSHR	SOR$COMMAND
SOR$GK_INDEX	00000003	SORTSHR	SOR$COMMAND
SOR$GK_RECORD	00000001	SORTSHR	SOR$COMMAND
SOR$GK_TAG	00000002	SORTSHR	SOR$COMMAND
SOR$K_IDENT	00000000	SORTSHR	SOR$ENTRY
SOR$K_INI_RUNS	00000008	SORTSHR	SOR$ENTRY

Symbol	Value	Defined By	Referenced By ...
SOR$K_LRL_INP	00000004	SORTSHR	SOR$ENTRY
SOR$K_LRL_INT	00000005	SORTSHR	SOR$ENTRY
SOR$K_LRL_OUT	00000006	SORTSHR	SOR$ENTRY
SOR$K_MRG_ORDER	00000009	SORTSHR	SOR$ENTRY
SOR$K_MRG_PASSES	0000000A	SORTSHR	SOR$ENTRY
SOR$K_NODES	00000007	SORTSHR	SOR$ENTRY
SOR$K_REC_INP	00000001	SORTSHR	SOR$ENTRY
SOR$K_REC_OUT	00000003	SORTSHR	SOR$ENTRY
SOR$K_REC_SOR	00000002	SORTSHR	SOR$ENTRY
SOR$K_WRK_ALQ	0000000B	SORTSHR	SOR$ENTRY
SOR$M_EBCDIC	00000002	SORTSHR	SOR$COMMAND
SOR$M_LOAD_FILL	00000200	SORTSHR	SOR$COMMAND
SOR$M_MULTI	00000004	SORTSHR	SOR$COMMAND
SOR$M_NODUPS	00000040	SORTSHR	SOR$COMMAND
SOR$M_SEQ_CHECK	00000010	SORTSHR	SOR$COMMAND
SOR$M_STABLE	00000001	SORTSHR	SOR$COMMAND
SOR$PASS_FILES	00002650-RX	SORTSHR	SOR$COMMAND
SOR$SORT_MERGE	00002660-RX	SORTSHR	SOR$ENTRY
SOR$SPEC_FILE	00002654-RX	SORTSHR	SOR$COMMAND
SOR$STAT	00002658-RX	SORTSHR	SOR$ENTRY
SOR$_ROPRAND	001C8142	SORTSHR	SOR$ENTRY
SORT$_FACILITY	0000001C	SORTSHR	SOR$ENTRY
STR$ANALYZE_SDESC	00002670-RX	LIBRTL	CLI$INTERFACE
STR$COPY_DX	0000266C-RX	LIBRTL	CLI$INTERFACE
STR$COPY_R	00002680-RX	LIBRTL	SOR$COMMAND UTIL$CHK_CLI
SYS$CALL_HANDL	80000010	SYS$P1_VECTOR	LIB$FIXUP_DEC
SYS$CLI	7FFEDE18	SYS$P1_VECTOR	CLI$INTERFACE
SYS$CREMBX	7FFEDEB8	SYS$P1_VECTOR	UTIL$CHK_CLI
SYS$CREPRC	7FFEDEC0	SYS$P1_VECTOR	UTIL$CHK_CLI
SYS$DASSGN	7FFEDEE0	SYS$P1_VECTOR	UTIL$CHK_CLI
SYS$EXIT	7FFEDF40	SYS$P1_VECTOR	UTIL$CHK_CLI
SYS$FAO	7FFEDF50	SYS$P1_VECTOR	UTIL$CHK_CLI
SYS$FAOL	7FFEDF58	SYS$P1_VECTOR	SOR$OUTPUT
SYS$GETDVIW	7FFEE418	SYS$P1_VECTOR	UTIL$CHK_CLI
SYS$GETJPI	7FFEE0D8	SYS$P1_VECTOR	SOR$ENTRY
SYS$GETJPIW	7FFEE420	SYS$P1_VECTOR	UTIL$CHK_CLI
SYS$GETTIM	7FFEDF78	SYS$P1_VECTOR	SOR$ENTRY
SYS$PUTMSG	7FFEE0E0	SYS$P1_VECTOR	SOR$OUTPUT
SYS$QIOW	7FFEDE00	SYS$P1_VECTOR	UTIL$CHK_CLI
SYS$UNWIND	7FFEE070	SYS$P1_VECTOR	LIB$FIXUP_DEC

```
                                  +---------------------+
                                  ! Symbols By Value !
                                  +---------------------+


Value                                             Symbols...
-----                                             ----------
00000000            SOR$K_IDENT
00000001            SOR$GR_RECORD          SOR$K_REC_INP          SOR$M_STABLE
00000002            SOR$GK_TAG             SOR$K_REC_SOR          SOR$M_EBCDIC
00000003            CLI$_FACILITY          SOR$GR_INDEX           SOR$K_REC_OUT
00000004            SOR$GK_ADDRESS         SOR$K_LRL_INP          SOR$M_MULTI
00000005            SOR$K_LRL_INT
00000006            SOR$K_LRL_OUT
00000007            SOR$K_NODES
00000008            SOR$K_INI_RUNS
00000009            SOR$K_MRG_ORDER
0000000A            SOR$K_MRG_PASSES
0000000B            SOR$K_WRK_ALQ
00000010            SOR$M_SEQ_CHECK
0000001C            SORT$_FACILITY
00000040            SOR$M_NODUPS
00000200            SOR$M_LOAD_FILL
000002B1         R-SOR$ENTRY
00000390         R-PRINT_STATS
000004B7         R-SOR$$COMMAND
00000E68         R-CLI_BEGIN
00000EA1         R-CLI_END
00000ECD         R-CLI_GET_VALUE
00000FB8         R-CLI_PRESENT
00001093         R-CLI_NEXT_QUAL
00001540         R-CLI$PRESENT
00001583         R-CLI$GET_VALUE
0000160F         R-CLI$DCL_PARSE
000016C0         R-CLI$DISPATCH
00001701         R-CLI$NEXT_QUAL
00001E8E         R-SOR$$OUTPUT
00001F51         R-LIB$FIXUP_DEC
00002648         RX-SOR$BEGIN_MERGE
0000264C         RX-SOR$BEGIN_SORT
00002650         RX-SOR$PASS_FILES
00002654         RX-SOR$SPEC_FILE
00002658         RX-SOR$STAT
0000265C         RX-SOR$END_SORT
00002660         RX-SOR$SORT_MERGE
0000266C         RX-STR$COPY_DX
00002670         RX-STR$ANALYZE_SDESC
00002674         RX-LIB$FREE_VM
00002678         RX-LIB$GET_VM
0000267C         RX-LIB$SYS_TRNLOG
00002680         RX-STR$COPY_R
00002684         RX-LIB$SIGNAL
00002688         RX-LIB$FIXUP_FLT
00038050            CLI$_IVCHAR
00038088            CLI$_IVVALU
000380B0            CLI$_NOCOMD
```

Value   Symbols...
-----   ----------

```
000381F0      CLI$_ABSENT
000381F8      CLI$_NEGATED
00038230      CLI$_LOCNEG
0003880A      CLI$_INVQUAL
00038822      CLI$_INVREQTYP
00038832      CLI$_VALCNVERR
0003FD01      CLI$_SPAWNED
0003FD19      CLI$_PRESENT
0003FD21      CLI$_DEFAULTED
0003FD29      CLI$_CONCAT
0003FD31      CLI$_LOCPRES
0003FD39      CLI$_COMMA
00158204      LIB$_BADSTA
001C8142      SOR$_ROPRAND
7FFEDE00      SYS$QIOW
7FFEDE18      SYS$CLI
7FFEDEB8      SYS$CREMBX
7FFEDEC0      SYS$CREPRC
7FFEDEE0      SYS$DASSGN
7FFEDF40      SYS$EXIT
7FFEDF50      SYS$FAO
7FFEDF58      SYS$FAOL
7FFEDF78      SYS$GETTIM
7FFEE070      SYS$UNWIND
7FFEE0D8      SYS$GETJPI
7FFEE0E0      SYS$PUTMSG
7FFEE418      SYS$GETDVIW
7FFEE420      SYS$GETJPIW
80000010      SYS$CALL_HANDL
```

Key for special characters above:
```
+-------------------+
! *  - Undefined    !
! U  - Universal    !
! R  - Relocatable  !
! X  - External     !
+-------------------+
```

```
                              +------------------+
                              ! Image Synopsis !
                              +------------------+

Virtual memory allocated:                    00000200 000027FF 00002600 (9728. bytes, 19. pages)
Stack size:                                          20. pages
Image header virtual block limits:                    1.         1. (    1. block)
Image binary virtual block limits:                    2.        20. (   19. blocks)
Image name and identification:               SORTMERGE V04-000
Number of files:                                      6.
Number of modules:                                   11.
Number of program sections:                          10.
Number of global symbols:                           424.
Number of cross references:                         189.
Number of image sections:                            10.
User transfer address:                       000002B1
Number of code references to shareable images:       15.
Image type:                                  EXECUTABLE.
Map format:                                  FULL WITH CROSS REFERENCE in file _$255$DUA28:[SORT32.LIS]SORTMERGE.MAP;1
Estimated map length:                        90. blocks
                              +----------------------+
                              ! Link Run Statistics !
                              +----------------------+

Performance Indicators              Page Faults    CPU Time      Elapsed Time
----------------------              -----------    --------      ------------
    Command processing:                    140    00:00:00.44    00:00:01.10
    Pass 1:                                167    00:00:01.39    00:00:11.99
    Allocation/Relocation:                  29    00:00:00.14    00:00:01.48
    Pass 2:                                 55    00:00:00.89    00:00:04.40
    Map data after object module synopsis:  23    00:00:00.68    00:00:00.81
    Symbol table output:                     1    00:00:00.01    00:00:00.55
Total run values:                          415    00:00:03.55    00:00:20.33

Using a working set limited to 1200 pages and 84 pages of data storage (excluding image)

Total number object records read (both passes):  379
    of which 176 were in libraries and 0 were DEBUG data records containing 0 bytes

Number of modules extracted explicitly       = 5
    with 4 extracted to resolve undefined symbols

26 library searches were for symbols not in the library searched

A total of 0 global symbol table records was written

LINK/USERLIB=PROC/NOTRACE/EXE=EXE$:SORTMERGE/MAP=MAP$:SORTMERGE/FULL/CROSS LIB$:SORTMERGE/INCL=(SOR$ENTRY,SOR$COMMAND,UTIL$CHK_CLI,S
OR$OUTPUT,LIB$FIXUP_DEC),SYS$INPUT/OPTIONS
EXE$:SORT$HR/SHARE
PSECT=$PLIT$,PIC,SHR,EXE
PSECT=$CODE$,PIC,SHR
COLLECT=CODE,$CODE$,$PLIT$,SOR$RO_CODE,_LIB$CODE
```

SMGUSRTRM
LIS

SORLIB
REQ

SORTSHR
MAP

DEFS0
REQ

DKS
REQ

SORT32

SRTSPC
REQ

CDDTYPE
R32

SORTMERGE
MAP

SMGVECTOR
LIS

CHKPNT
REQ

CDDMAC
R32

SFKEYWRD
REQ

RECSYM
R32

SRTTRN
MAP

OPCODES
REQ